



Product Evaluation

DR844 | 0417

Engineering Services Program

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

Evaluation ID: DR-844

Effective Date: April 1, 2017

Re-evaluation Date: September 2018

Product Name: Aluminum Clad Wood StormForce French Terrace Outswing Side Hinged Glazed Doors, Impact Resistant

Manufacturer: Loewen Windows
77 Highway 52 West
Steinbach, Manitoba
Canada R2G 1B2
(800) 563-9367

General Description:

System	Description	Label Rating	Design Pressure Rating
1	Aluminum Clad Wood StormForce French Terrace Outswing Side Hinged Glazed Doors	LC-PG70 87 x 99-SHD Missile Level D	+70 / -70 psf

Component Dimensions:

System	Overall Size	Panel Size	Panel Glass Daylight Opening Size
1	87-1/16" x 99-7/16"	Active: 42-15/16" x 97" Passive: 42" x 97"	33-3/8" x 83-13/16"

Hardware:

- **5-point Lock;** deadbolt and two locks on stile; shoot bolts through top and bottom; located on the active panel.
- **2-point lock;** shoot bolts located at the top and bottom; located on the passive panel.
- **Strike Plates:**
 - **Deadbolt;** one required; secured to astragal with three No. 7 x 3/4" FH screws.
 - **Locks;** two required; secured to the astragal with two No. 7 x 3/4" FH screws.
 - **Shoot Bolts;** One shoot bolt strike plate required at the head and one shoot bolt strike plate required at the sill; the head strike plate secured with three No. 10 x 3" FH screws; the sill strike plate secured with three No. 10 x 2-1/2" FH screws.
- **Hinges:** Four on each panel; secure each to the door panel with four, No. 12 x 2" FH screws; secure to the door jamb with two, No. 12 x 3/4" FH screws and two, No. 12 x 2-1/2" FH screws at the top and bottom hinges and three, No. 12 x 3/4" FH screws and one, No. 12 x 2-1/2" FH screw at the intermediate hinges. Fasteners long enough to penetrate a minimum of 1-1/2" into the wall framing.

Sill: wood interior with aluminum cladding exterior.

Product Identification (Certification Agency Label on Door):

System		
1	Certification Agency	WDMA
	Manufacturer's Name or Code Name	Loewen
	Product Name	French Terrace Outswing Door StormForce
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-11 ASTM E 1886-02/05, ASTM E 1996-02/05; Missile Level D

Impact Resistance:

System	Impact Resistant	Requirement
1	Yes	These products satisfy TDI's criteria for protection from windborne debris in the Inland I and Seaward zone. Install the assemblies at a height on the structure that does not exceed the design pressure rating for the assemblies.

Installation:

Use minimum Southern Yellow Pine dimension lumber. Secure the door assembly to the wall framing using the nail fin along the head and side jambs with minimum No. 8 x 1-1/2" screws. Locate the fasteners approximately 3-1/2" from each corner and approximately 6-1/2" on center. Shoot bolt strike plates and hinges are secured to the wall framing as specified in the hardware section. Use fasteners long enough to penetrate a minimum of 1-1/2" into the framing.

Note: Keep the manufacturer's installation instructions available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.